

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
Box 272400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200400519-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): David C Collins

Confirmation No.: 8946

Application No.: 10/821130

Examiner:

Filing Date: Apr 08, 2004

Group Art Unit:

Title: Generating And Displaying Spatially Offset Sub-Frames

Mail Stop Amendment  
Commissioner For Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97 (b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c), together with either a:  
☐ Statement under 37 CFR 1.97 (e), or  
☐ a \$180 fee under 37 CFR 1.17 (p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d), together with either a:  
☐ Statement under 37 CFR 1.97 (e)(1) or (2), and  
☐ a \$180 fee set forth in 37 CFR 1.17 (p)  
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Please charge to Deposit Account 08-2025 the sum of \$ 0.00 . At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

- ☒ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an english language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed.

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Date of Deposit:

OR

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Date of facsimile:

Typed Name: Timothy F. Myers

Signature:

*Timothy F. Myers*

Respectfully submitted,

David C Collins

By

*Timothy F. Myers*  
Timothy F. Myers

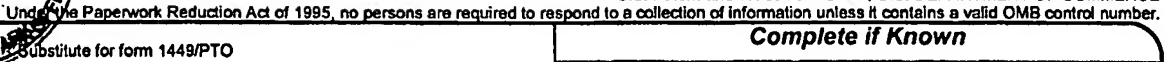
Attorney/Agent for Applicant(s)

Reg No.: 42,919

Date:

1/17/06

Telephone: 541 715 4197



**(Use as many sheets as necessary)**

**Complete if Known**

Attorney Docket Number	200400519-1
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[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
/JSS/		EP 1 503 335 A	02-02-2005	HP		
↓		EP 1 388 838 A	02-11-2004	HP		
		WO 02/03688 A	01-10-2002	Imax Corp		

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<b>Application Number</b>	10/821130
<b>Filing Date</b>	Apr 08, 2004
<b>First Named Inventor</b>	Collins
<b>Art Unit</b>	Unknown
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	200400519-1

[illegible]

Examiner Signature	/Jeffrey Smith/	Date Considered	08/03/2007
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PATENT APPLICATION

ATTORNEY DOCKET NO. 200400519-1

Inventor(s): David C. Collins  
Application No.: 10/821,130  
Filing Date: April 8, 2004

Confirmation No.: Unkn.  
Examiner: Unknown  
Group Art Unit: Unkn.

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Mail Stop Amendment  
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- ☐ Response/Amendment  
☐ New fee as calculated below  
☐ No additional fee  
☒ Other SIDS; Supp 1449

- ☐ Petition to extend time to respond  
☐ Supplemental Declaration

Fee\$

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY						
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEES
TOTAL CLAIMS		MINUS	20	= 0	X \$50	\$ 0
INDEP. CLAIMS		MINUS	3	= 0	X \$200	\$ 0
<input type="checkbox"/> FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ \$360	\$ 0
EXTENSION FEE	<input type="checkbox"/> 1st Month \$120	<input type="checkbox"/> 2nd Month \$450	<input type="checkbox"/> 3rd Month \$1020	<input type="checkbox"/> 4th Month \$1590		\$ 0
OTHER FEES						\$
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$ 0

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Commissioner for Patents, Alexandria, VA 22313-1450.

Date of Deposit: November 29, 2005

Typed Name: Scott A. Lund

Signature:

Respectfully submitted,

David C. Collins

By

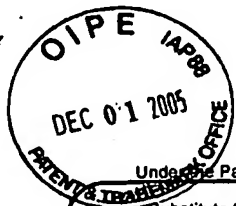
Scott A. Lund

Attorney/Agent for Applicant(s)

Reg No. : 41,166

Date : November 29, 2005

Telephone : (612) 573-2006



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Sheet 1 of 1

PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

### Complete if Known

Application Number	10/821,130
Filing Date	April 8, 2004
First Named Inventor	David C. Collins
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	200400519-1

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/JSS/ ↓		US- 5,530,482	06-25-96	Gove et al.	
		US- 5,729,245	03-17-98	Gove et al.	
		US- 5,742,274	04-21-98	Henry et al.	
		US- 5,757,355	05-26-98	Ogura et al.	
		US- 6,825,835	11-30-04	Sano et al.	
		US- 2003/0011614	01-16-03	Itoh et al.	
		US- 2003/0133060	07-17-03	Shimada	
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/Jeffrey Smith/

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Inventor(s): David C. Collins

Confirmation No.: Unkn.

Application No.: 10/821,130

Examiner: Unknown

Filing Date: April 8, 2004

Group Art Unit: Unkn.

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

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Typed Name: Scott A. Lund

Signature: 

Respectfully submitted,

David C. Collins

By 

Scott A. Lund

Attorney/Agent for Applicant(s)

Reg No. : 41,166

Date : November 29, 2005

Telephone : (612) 573-2006

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|---|---|
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| <input type="checkbox"/> No additional fee                        |   |
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TOTAL CLAIMS		MINUS		= 0	X \$18	\$ 0
INDEP. CLAIMS		MINUS		= 0	X \$88	\$ 0
[ ] FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ \$300	\$ 0
EXTENSION FEE	1ST MONTH \$110.00	2ND MONTH \$430.00	3RD MONTH \$980.00	4TH MONTH \$1530.00		\$ 0
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By *Scott A. Lund*

Scott A. Lund

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Date: **Dec. 20, 2004**

Telephone No.: **(612) 573-2006**





Approved for use through 07/31/2006. OMB 0651-0031

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(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. ER314293789US

Date of Deposit Apr. 8, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: Denyse Daophinals

Respectfully submitted,

David C. Collins

By

Christopher P. Kosh

Attorney/Agent for Applicant(s)

Reg. No. 42,760

Date: Apr. 8, 2004

**PATENT APPLICATION**

Sheet 1 of 3

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>200400519-1</b>	APPLICATION NO.	CONFIRMATION NO.
	APPLICANT <b>David C. Collins</b>		
	FILING DATE <b>Herewith</b>	GROUP	

**REFERENCE DESIGNATION**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
/JSS/	1A	4,373,784	Feb. 1983	Nonomura et al.	
	1B	4,662,746	May 5, 1987	Hornbeck	
	1C	4,811,003	Mar. 1989	Strathman et al.	
	1D	4,956,619	Sep. 11, 1990	Hornbeck	
	1E	5,061,049	Oct. 29, 1991	Hornbeck	
	1F	5,083,857	Jan. 28, 1992	Hornbeck	
	1G	5,146,356	Sep. 1992	Carlson	
	1H	5,317,409	May 1994	Macocs	
	1I	5,490,009	Feb. 6, 1996	Venkateswar et al.	
	1J	5,557,353	Sep. 1996	Stahl	
	1K	5,689,283	Nov. 18, 1997	Shirochi	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
/JSS/	1L	EP 1001306A2	May 17, 2000	Olympus Optical Co.,		X
	1M					
	1N					
	1O					
	1P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

/JSS/	1Q	L.M. Chen and S. Hasagawa, "Visual Resolution Limits for Color Matrix Displays", "One-Panel Projectors", Displays, Technologies, and Applications, Vol. 13, pp. 221-226, 1992.
/JSS/	1R	A. Yasuda et al., "FLC Wobbling for High-Resolution Projectors", Journal of the SID 5/3 1997, pp. 299-305.
/JSS/	1S	T. Tokita et al., "P-108: FLC Resolution-Enhancing Device for Projection Displays", SID 02 Digest 2002, pp. 638-641.

EXAMINER <b>/Jeffrey Smith/</b>	DATE CONSIDERED <b>08/03/2007</b>
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**PATENT APPLICATION**

Sheet 2 of 3

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> <b>200400519-1</b>	<b>APPLICATION NO.</b>	<b>CONFIRMATION NO.</b>
	<b>APPLICANT</b> <b>David C. Collins</b>		
	<b>FILING DATE</b> <b>Herewith</b>	<b>GROUP</b>	

**REFERENCE DESIGNATION**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
/JSS/	2A	5,912,773	Jun. 1999	Barnett et al.	
	2B	5,920,365	Jul. 1999	Eriksson	
	2C	5,953,148	Sep. 1999	Moseley et al.	
	2D	5,978,518	Nov. 2, 1999	Oliyide et al.	
	2E	6,025,951	Feb. 15, 2000	Swart et al.	
	2F	6,067,143	May 2000	Tomita	
	2G	6,104,375	Aug. 15, 2000	Lam	
	2H	6,118,584	Sep. 2000	Van Berkel et al.	
	2I	6,141,039	Oct. 31, 2000	Poetsch	
	2J	6,184,969	Feb. 6, 2001	Ferguson	
	2K	6,219,017	Apr. 17, 2001	Shimada et al.	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

/JSS/	2Q	D.H. Kelly, "Motion and Vision - II. Stabilized Spatio-Temporal Threshold Surface," Journal of the Optical Society of America, Vol. 69, No. 10, October 1979.
/JSS/	2R	Candice H. Brown Elliot et al., "Color Subpixel Rendering Projectors and Flat Panel Displays"; SMPTE Advanced Motion Imaging Conference; February 27-March 1, 2003; pgs. 1-4.
/JSS/	2S	Diana C. Chen, "Display Resolution Enhancement with Optical Scanners" Applied Optics, Vol. 40, No. 5, February 10, 2001, pp. 636-643.

EXAMINER

/Jeffrey Smith/

DATE CONSIDERED

08/03/2007

**PATENT APPLICATION**

Sheet 3 of 3

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> <b>200400519-1</b>	<b>APPLICATION NO.</b>	<b>CONFIRMATION NO.</b>
<b>APPLICANT</b> <b>David C. Collins</b>			
<b>FILING DATE</b> <b>Herewith</b>		<b>GROUP</b>	

**REFERENCE DESIGNATION**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
/JSS/	3A	6,239,783	May 29, 2001	Hill et al.	
	3B	6,243,055	Jun. 5, 2001	Ferguson	
	3C	6,313,888	Nov. 6, 2001	Tabata	
	3D	6,384,816	May, 6, 2002	Tabata	
	3E	6,393,145	May 21, 2002	Betrissey et al.	
	3F	6,522,356	Feb. 2003	Watanabe	
	3G	2003/0020809	Jan. 30, 2003	Gibbon et al.	
	3H	2003/0076325	Apr. 2003	Thrasher	
	3I	2003/0090597	May 15, 2003	Katoh et al.	
	3J				
	3K				

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check If Translation attached
	3L					
	3M					
	3N					
	3O					
	3P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

	3Q	
	3R	
	3S	

<b>EXAMINER</b>  /Jeffrey Smith/	<b>DATE CONSIDERED</b> 08/03/2007
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